

## Abstract

A continuous catalytic hydrogenation process, in which a reaction mixture containing the substance to be hydrogenated, the hydrogenation product, hydrogen and the hydrogenation catalyst suspended in the reaction mixture is recirculated in a reactor. Part of the hydrogenation product is removed from the reactor and the substance to be hydrogenated and hydrogen are fed into the reaction. In this process the substance to be hydrogenated and the hydrogen are mixed before entering the reactor. A venturi nozzle is particularly suitable as the mixing device.